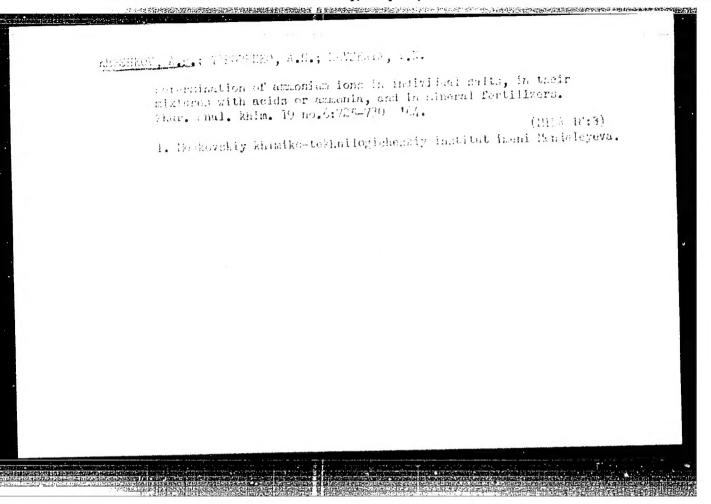
KRESHKOV, A.P.; ALDAHOVA, H.Sh.

Potentions tric titration of heterocyclic nitrogen-containing compounds and their mixtures in a methyl ethyl ketene medium. Zher. anal. khin. 19 no.5:537-540 '64. (MIRA 17:8)

1. Mcskovskiy knimiko-tokhnologicleskiy institat imeni Mendeleyeva.



KRESHKOV, A.P.; BYKOVA, L.N.; PEVYNER, I.D.

Potentiometric method of titration of diamines and their mixtures in a medium of differentiating solvents. Zhur. anal. khim. 19 no.7: (MIRA 17:11)

1. Mendeleev Moscow Chemico-Tachnological Institute.

BALYATHISKAYA, L.N.; KRESHKOV, A.P.; TUR'YAN, Ya.I.

Potentiometric method for the determination of vinyl monomers.

Zhur. anal. khim. 19 no.8:1025-1028 'c4. (MIRA 17:11)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva
i Yaroslavskiy nauchno-issledovatel'skiy institut monomerov dlya
sinteticheskogo kauchuka.

EFF(c)/EVIP(1)/EVIT(m) Pc-4/Pr-4 UR/0075/64/019/010/1177/1182 ACCESSION NR: APSO15697 13 AUTHOR: Kreshkov, A. P.; Drozdov, V. A.; Kolchina, N. A. TITIE: Determination of methylphosphinic acid and its derivatives by titration in aqueous media SOURCE: Zhurnal analiticheskoy khimii, v. 19, no. 10, 1964, 1177-1182 TOPIC MGS: phosphinia acid, titrimetry Abstract: The determination of methylphosphinic acid, methylphosphinyl dichloride, and the monoisobutyl ester of methylphosphinic acid by titration in nonaqueous solutions was studied. Acetonitrile, methyl ethyl ketone, and pyridine were tested as the medium for the titration of methylphosphinic acid; acctonitrile, methyl ethyl ketone, and a mixture of diethyl ether and methyl ethyl ketone (itl) were used as the titration medium for the acid ester. A 0.1% acctonitrile solution of quinizarine (1,4-dihydroxyanthraquinone) was used as the indicator in methyl ethyl ketone and acetonitrile medium, as well as in the mixture of solvents; the titration reagent was a 0.1 N benzene-methanol solution of tetraethylammonium hydroxide. In the indicated solvents, methylphosphinic acid

L 52330-65 ACCESSION NR: AP5015697 and its monoisobutyl ester are titrated as monobasic acids. Upon addition of 0.2% HoO to methyl ethyl ketone, methylphosphinic acid begins to dissociate and is titrated as a dibasic acid, the second potential drop increasing as the amount of added water is raised to 1.55. The method of direct titration with a solution of sodium methylate in absolute benzene medium in the presence of thymolphthalein and a method of reverse titration, based on the reaction of dimethylphosphinyl dichloride with an excess of a 0.1 N solution of piperidine in acctonitrile, followed by potentiometric titration of the excess piperidine with a 0.1 N acqueous solution of HCI, was used to determine the acid dichloride. In addition to the quantitative determination of the phosphinic acid and derivatives as individual compounds, two-component-(mothylphosphinic and hydrochloric acids) and three-component mixtures (methylphosphinic acid, hydrochloric acid, and the acid eater) were analyzed in absolute methyl ethyl ketone medium by potentiometric titration with a 0.1 N solution of tetraethylanmonium hydroxide, without the addition of water and with an addition of 4.5% water. In the titration of two-component mixtures in absolute methyl ethyl ketone, two potential drops were observed; however, differentiation was not very distinct. The addition of 4.5% water before the beginning of titration produced three distinct potential drops: 1) neutralization

L 52330-65

of HCl (quantitative results); 2) neutralization of the first stage of methylphosphinic acid (quantitative results); 3) neutralization of the methylphosphinic acid (unstable results). In the titration second stage of methylphosphinic acid (unstable results). In the titration of three-component mixtures, two potential drops were obtained in absorbate methyl ethyl ketone, the first corresponding to the neutralization lute methyl ethyl ketone, the first corresponding to the neutralization of hydrochloric acid, the second to the sum of the first stage of methylosphinic acid and the acid ester, overestimated results being obtained phosphinic acid and the acid ester, according to the second drop. The addition of 4.5% water to the methyl according to the second drop. The addition of 4.5% water to the methyl ethyl ketone before titration produced three distinctly differentiated potential drops: quantitative titration of HCl, quantitative titration of the sum of the first stage of methylphosphinic acid and the acid ester, and titration of the second stage of methylphosphinic acid (unstable results). Orig. art. has 2 formulas, 5 graphs, and 4 tables.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Mendeleyeva

(Moscow Chemico-Technological Institute)

SUBMITTED: 18Fob64

ENCL: 00

JIB CODE: OC. GC

NO REF SOV: 005

OTHER: OLL

JPRS

Card 3/3 7/19

EXECUTE A.F.; MITERTIFIER, Yu.Ya.; TUMPUSKIT, L.A.

Differentiated determination of weak acids by the method of spectrophotometric titration in annaqueous solutions. Thur. anal. khim. 19 no.11:1293-1298 '64. (MERA 18:2)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.

中共1862年7月,2014年18日的中华1864年186日中华1864年1862年19

KRESHKOV, A.P.; VASILIYEV, V.I.

Analysis of a mixture of nitro-ortho-toluidine isomers and a mixture of nitro-para-toluidine isomers by a method of spectro-photometric titration in nonaqueous solutions. Zrur. anal. khim. 19 no.12:1508-1512 164 (HERA 18:1)

1. D.I. Mendeleyer Moscow Chemico-Technological Institute.

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826410 A TRANSPORTER AND THE PROPERTY OF THE PROPERTY

KRESHKOV, A.P.; BYKOVA, L.N.; SKRIPKO, L.A.; PEVZMER, I.D.

Differentiated determining of diamines used as rubber atabilizers with the method of titration in nonaqueous solutions. Kauch, i rez. (MIRA 18:2) 23 no.12:47-50 D 164.

1. Moskovskiy khimiko-tekhnologicheskiy institut im. D.I. Mendeleyeva i Nauchnc-issledovatel'skiy institut khimikatov dlya polimernykh materialov.

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ACCESSION NR: AP4033609

8/0032/64/030/004/0413/0415

AUTHORS: Kreshkov, A. P.; Drosdov, V. A.; Tarasyants, R. A.

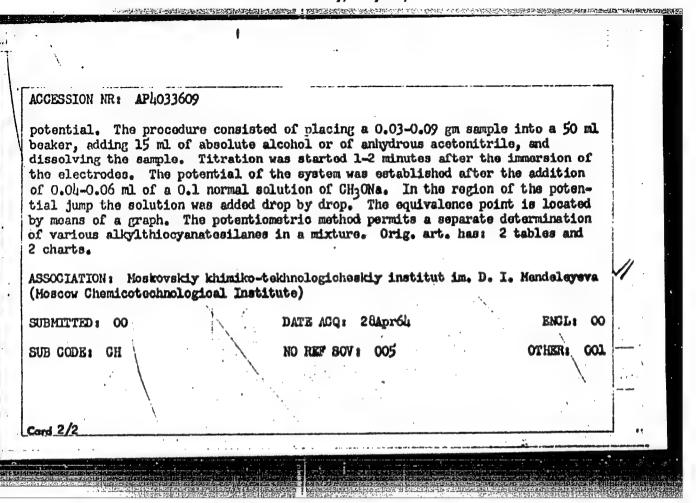
TITLE: Tritration of alkylthiocyanatesilanes in nonaqueous media

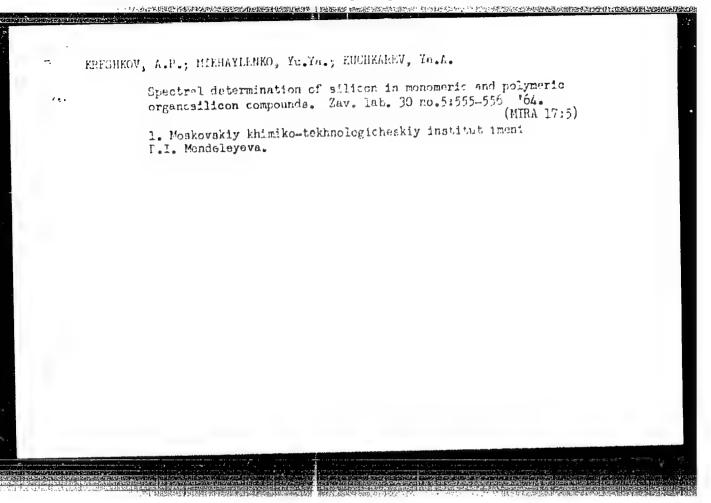
SOURCE: Zavodskaya laboratoriya, v. 30, no. 4, 1964, 413-415

TOPIC TAGS: alkylthiocyanatesilane, alkylthiocyanatesilane titration, sodium methylate titration, IP 58 potentiometer

ABSTRACT: A method was developed for the quantitative determination of the SCN groups in alkylthiccyanatesilanes of the general formula RnSi(SCH) where the R is a methyl, ethyl, or ethylene group. The method was based on titration with a methanol solution of sodium methylate in a medium of acetonitrile, or methyl, ethyl, n-propyl, and n-butyl alcohol. In one modification the titration was conducted in the presence of indicators of the ocyanthraquinone series (such as quinizarin, purpurin, alizarin, and antirarufin) used in the form of saturated solutions in acctonitrile. In the second modification the titration was conducted by means of a LP-58 potentiometer with a system of glass and calomel electrodes. The neutralisation point corresponded to a sharp jump (about 400 mv) of the

Card 1/2





KEELEKOV, A.P.; BORK, V.A.; APARTHEVA, E.I.

Amperometric titration of unauturated organosilicon compounds in nonaqueous media. Zav. lab. 30 no.10:1203-1211 '64. (PTRA 1944) nonaqueous khimiko-tekhnologicheskiy institut imeni Mendelayeva.

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendelayeva.

KRESHKOV, A.P.; SAYUSHKIYA, Ye.H.; DROZDOV, V.A.

Preparation of tetremethyl ammonium hydroxide solution by the ion-exchange method. Zhur. prikl. khim. 37 no.9:1894-1898 S 164. (MIRA 17:10)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.

Pr-4/Pc-4/Ps-4 ENT(m)/EPF(c)/ENP(v)/EPR/ENP(j)/T L 23512-65 5/0080/64/037/010/2278/2283 ACCESSION NR: AP4047126 AUTHOR: Kreshkov, A. P.; My*shlyayeva, L. V.; Soboleva, D. A. TITLE: The reactions of certain alkyl-alkyloxy silanes with aqueous alkali zincate and beryllate solutions SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 10, 1964, 2278-2283 TOPIC TAGS: alkylalkyloxysilane, alkylsilanolate zincate, alkylsilanolate beryllate, impregnant, surfactant impregnant, glass cloth impregnant ABSTRACT: The reactions of trimethylmethoxy silane (I) and of dimethyldimethoxysilane (II) with aqueous alkali solutions of sodium zincate (III) and sodium beryllate (IV) were investigated. Reactions of I with III and IV within a wide molar ratio of the reactants (Si:Zn(Be) = 2:1, 1:1, 1:2 and 1:3) all gave products having the molecular compositions 6(CH3)3SiONa, Na2ZnO2, 3OH2O (sodium monozincate of 6-trimethylsilanolate), and 3(CH3)3SiONa. Na2BeO2. 22H2O (sodium monoberyllate of 3-trimethylsilanolate), respectively. The Card1/2

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826410

L 23512-65

ACCESSION NR; AP4047126

3(CH₃)₂Si(OH)ONa. Na₂ZnO₂. 10H₂O (sodium monozincate of 3-dimethylhydroxylsilanolate) and 3(CH3)2Si(OH)ONa. Na2BeO2. 22H2O(sodium monoberyllate of 3dimethylhydroxysilanolate) were obtained by reaction of II with III and IV solutions only when the reactant molar ratio was such that Si:Zn(Be) was 4:1. Other reactant ratios gave mixtures of products of variable compositions. The obtained products were subjected to IR spectroscopic, ionizing x-ray and microcrystalloscopic analyses. The products could be applied to cotton and glass cloth as impregnants in the form of aqueous alcoholic solutions to reduce their adhesion 15 to polymeric materials such as polyvinyl chloride. Orig. art. has: 4 figures

ASSOCIATION: None

SUBMITTED: 02Oct62

SUB CODE: OC. GC

Cord 2/2

ENCL: 00

NO REF SOV: 010

OTHER: 001

8/0076/64/038/003/0738/0740

ACCESSION NR: AP4033407

AUTHOR: Kreshkov, A. P.; Vlasov, B. V.; Drozdov, V. A.; Vlasova, Ye. G.

TITIE: Study of certain properties of oxygen containing silicon organic compounds in liquid hydrogen fluoride medium.

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 3, 1964, 738-740

TOPIC TAGS: silicon organic compound, hydrogen fluoride, sodium triethyl silanolate, triethyl silinole, hexamethyldisiloxane, hexaethyldisilocane, electrical conductivity method, dissociation

ABSTRACT: Oxygen containing silicon organic compounds, such as sodium triethylsilanolate (C₂H₅)₃SiONa (I), triethylailanole (C₂H₅)₃SiOH (II), hexamethyldisi-loxane [(CH₃)₃Si₂) (III) and hexamethyldisilocane [(C₂H₅)₃Si₂O (IV) in a liquid hydrogen fluoride medium were studied by the electrical conductivity method. The specific and equivalent electrical conductance were calculated for the studied compounds. Liquid hydrogen fluoride was chosen as a solvent because of its high dielectric constant, low viscosity, low molecular association and the fact that most compounds, when dissolved in hydrogen fluoride, act as bases. The dissolving

Card 1/3

ACCESSION NR: AP4033407

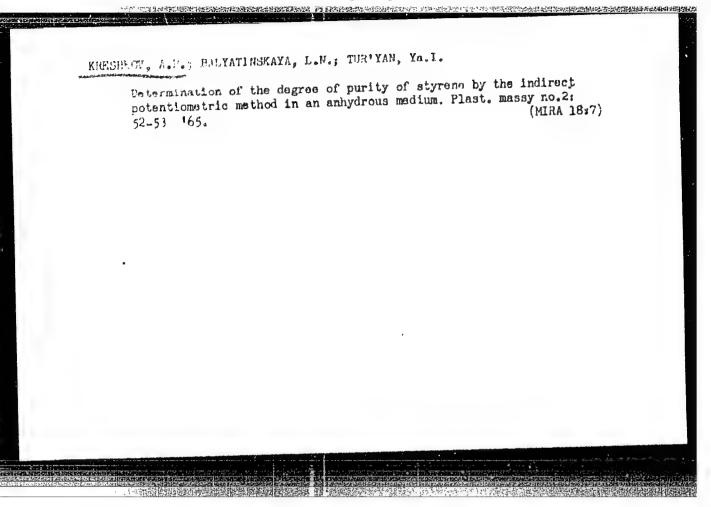
process of organic compounds in hydrogen fluoride is assumed to proceed by the attachment of hydrogen fluoride to the dissolving compound accompanied by the dissociation of the solvate into a complex cation and hydrofluoride ion. All the compounds used in the experiment were thoroughly purified. Hydrogen fluoride was purified by a fractionation copper column and had a specific electrical conductive try of 1.29 10 - 9.43 10 ohm - 1.cm - 1, which corresponded to 0.01 to 0.05 % water content. The electrical conductivity was measured at 1000 cycles at -10 _ 0.1 C and the results of these measurements are given in a table. It was found from the specific conductance that compound II behaved analogously to alcohols (ethanol) and displayed strong basicity. Compounds III and IV were analogous to ethers (diethyl ether) with weakly basic properties. It is concluded that the dissociation of the silicon organic compounds in liquid hydrogen fluoride is similar to the silicon organic compounds in liquid hydrogen fluoride is similar to the dissociation of organic compounds and can be expressed as follows:

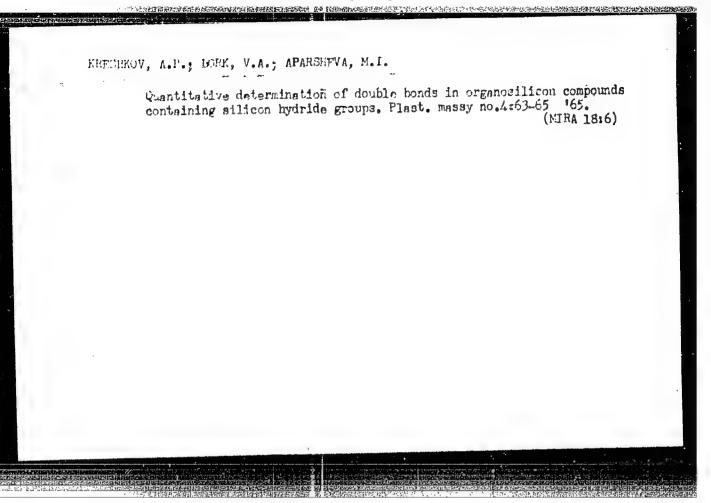
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CESSION NR: AP403	3407				,
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SUBVITTED: 04Mar63		NO REF BOY:		OTHER: OO7	!

KRESHKCV, A.P.; VASIL'YEV, V.I.

Differentiating effect of monaqueous solvents as dependent on the titrimetric method of determining acids and bases. Trudy MKHTI no.44, (MIRA 18:1) 125-131 '64.





KRESHKOV, A.P.; KHUDYAKOVA, T.A.; AUROV, A.P.; ARBATSKIY, A.P.

Chronoconductometric method for determining maloic anhydride in its copolymer with styrene and sodium styromaleinate. Plast. massy no.7: 51-55 '65.

(MIRA 18:7)

RESURCE, A.P.; MIKHAYLERKO, Yu.Yu.; SEMETSYAYA, L.P.

Caing the infrared spectroscopy mathod for determining unsaturated groupe in silicon organic compounds. Linut. massy no.8:48-50 (MRA 18:9)

KEESHKOV, A.P.; YAROVENKO, A.N.; SAYUSHKINA, Ye.N.; ZELENINA, L.N.

Using the method of differential titration in nonaqueous solutions for the determination of salts. [zv.vys.ucneb.zav.; khim. i khim. tekh. 8 no.2:196-202 '65.

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva, kafedra analiticheskoy khimit.

L 19387-66 EVT(m)/EVP(j) RM ACCESSION NR: AP5015574

UR/0153/65/008/002/0316/0319

97

AUTHOR: Kreshkov, A. P., Aldarova, N. Sh.

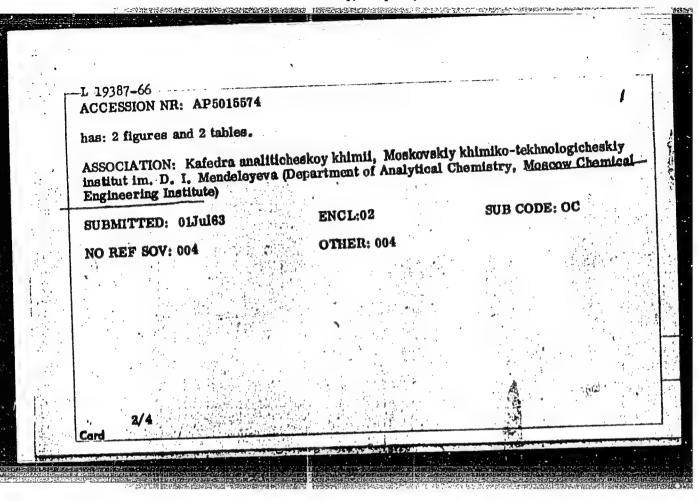
TITLE: Potentiometric method of determining monomeric, model, and polymeric compounds of the benzimidazole series

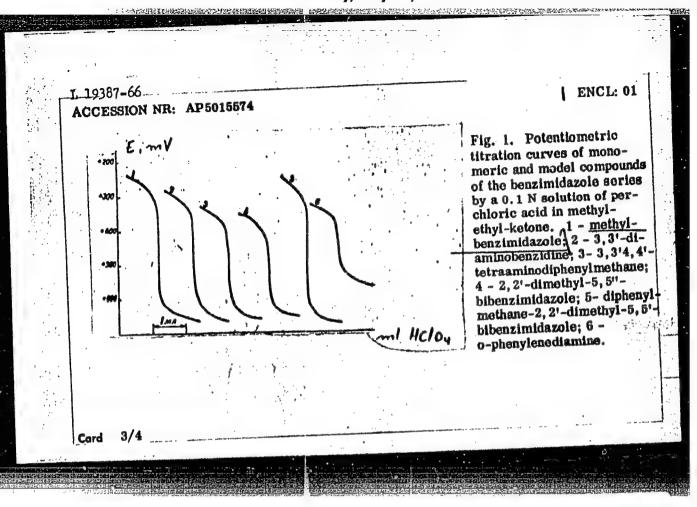
SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 8, no. 2, 1965, 316-319

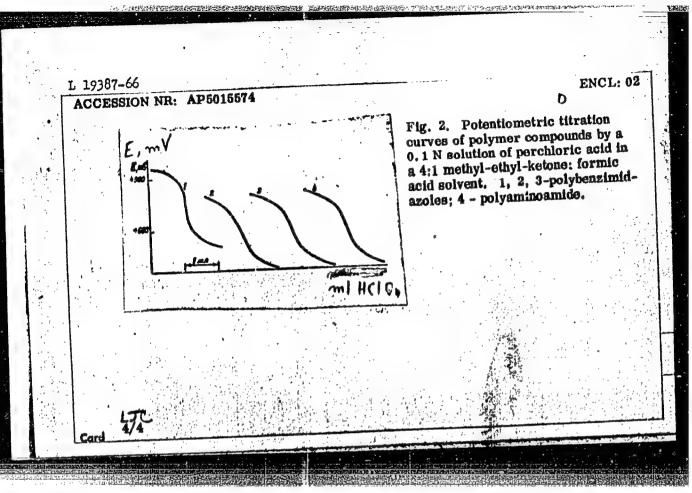
TOPIC TAGS: benzimidazole, titrimetry, polyamine, potentiometric titration, perchloric acid

ABSTRACT: The determinations were made using a glass - calamel electrode system. The medium for the titration of the model and monomeric compounds was methyl-ethyl-ketone, and the titrating agent was a 0.1 N solution of perchloric acid in methyl-ethyl-ketone. Fig. 1 of the Enclosure shows the titration curves of the monomeric and model compounds; the error in the quantitative determination of these compounds was 1-3%. Curves obtained by titrating polybenzimidazoles and polyaminoamide are shown in Fig. 2 of the Enclosure. These studies provide a confirmation of the structure of the monomer unit of polybenzimidazoles (each such unit containing an NH group which is titrated), and are an indirect proof of the mechanism governing the formation of these compounds from tetramines and dicarboxylic alignatic and aromatic acids and their esters. Orig. art.

Card 1/4







APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008264100

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OPIC TAGS: sil anic compound,	chlorinated organic compount	i, ammonium phosphate, fl id	dol inaced of
anic compound, BSTRACT: This ifluorophospha yl difluorophos ifluorophospha ion of this mer SSOCIATION: H	chlorinated organic compount Author's Certificate introduce silanes, e.g. trimethyl sphate silanes. Trialkyl clate in an organic solvent without in which the reaction to skovskiy khimiko-tekhnolog.	iuces: 1. A method for p, triethyl, dimethylethyl hlorosilanes are interact th the application of heamixture is heated to boil icheskiy institut im. D.	roducing trialkyl and diethylpro- ed with ammonium t. A modifica- ing.
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KPESHKOV, A.P.; KHUDYAKOVA, T.A.

Chronoconductometric method for determining weak aclds.

Zhur. anal. khim. 20 no.5:625-629 '65. (MIRA 18:12)

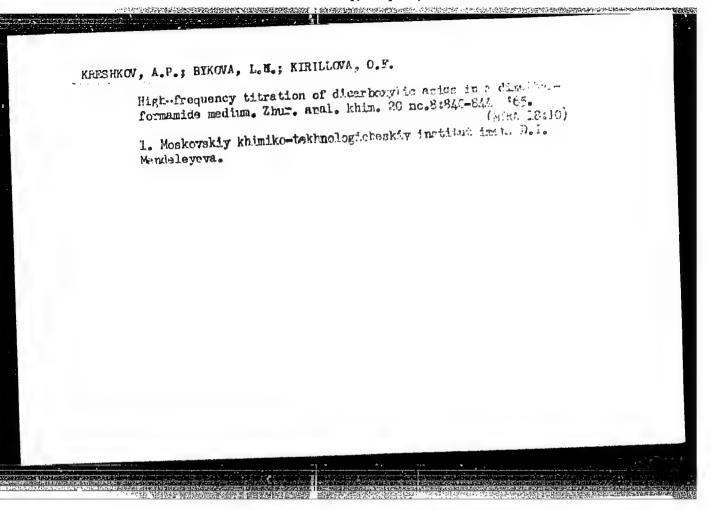
1. Meskovskiy khimiko-tekhnologicheskiy institut imeni D.I.

Mendeleyeva i Gor'kovskiy politekhnicheskiy in: titut imeni
A.A. Zhdanova. Submitted March 27, 1964.

RECHEOV, A.F.; Book, V.A.; shoredow, i.d.; fraction, i.e.

Ampercentic and visual titration of cascilles, enalises, and thicogenities with cadmium nitrate in unbydrous agents Arii. Zhur. anal. thim. 20 no.6:70A-708 165. (VIEA 19:7)

1. Moskovskiy khimiko-tekhnologishesaly fratitut beni Mondalayeva.



Rapid method of determining free amorphous slitten dioxide in clays. Zhur. anal. khim. 20 no. 11:1253-1255 '65 (MIRA 19:1)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva. Submitted January 8, 1965.

KRESHKOV, A.P.; MYSHLYAYEVA, L.V.; KUCHKAREV, Ye.A.; SHATUNOVA, T.G.

Quantitative determination of titanium in organotitanium and organosilicotetanium compounds. Zhur. anal. khim. 20 no.12: 1325-1329 '65. (MIRA 18:12)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva. Submitted November 28, 1964.

KRESHKOV, A.P.; YAROVEIKO, A.N.; MILAYEV, S.M.; ALDARO'A, E. Sh.

Analysis of rare-earth salts in nonaqueous solutions. Zhur. anal.
khim. 21 no. 1:34-39 "66 (MIRA 19:1)

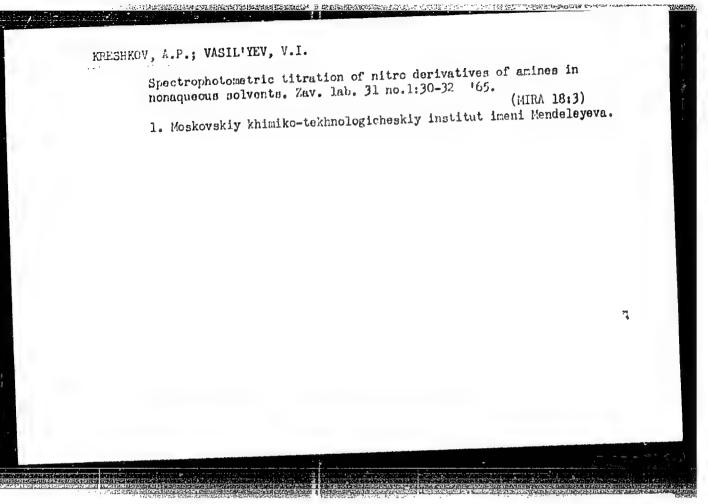
1. Moukovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva
i Vostochno-Sibirskiy tekhnologicheskiy institut, Ulan-Ude.

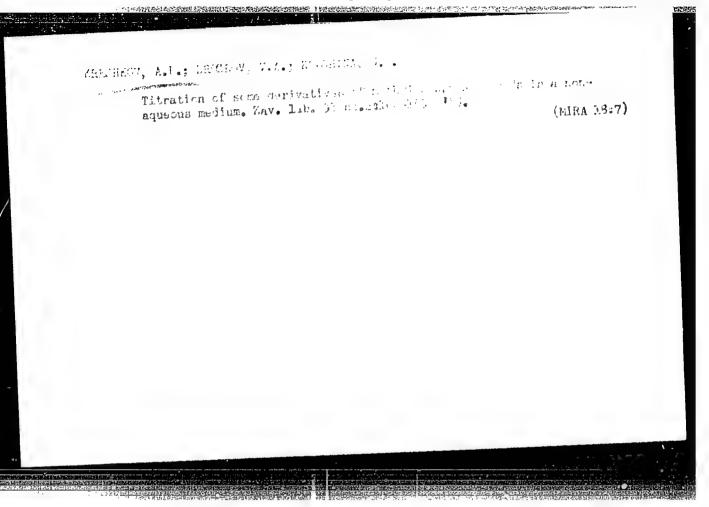
KRESHKOV, A.P.; BALYATINSKAYA, L.N.

Using the mercury-accetate method for determining the general non-eaturation of butyl rubber. Kauch. 1 rez. 24 no.10:55-56 165.

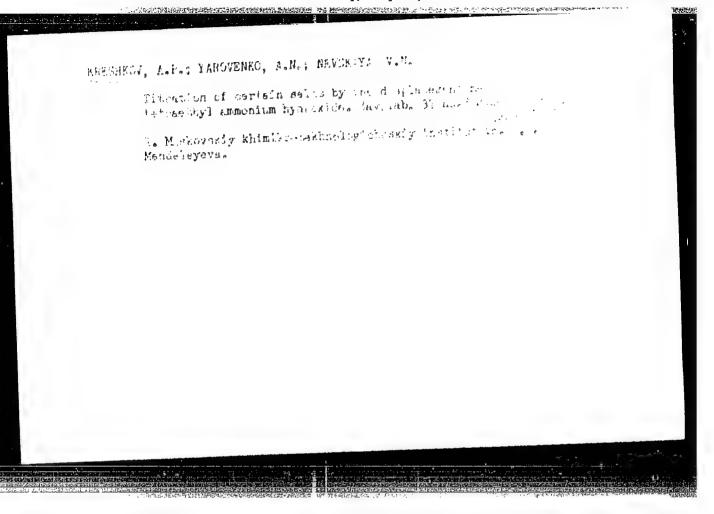
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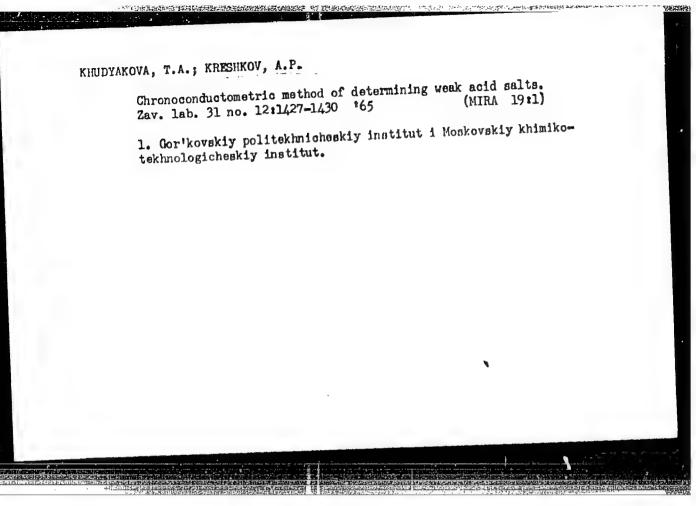
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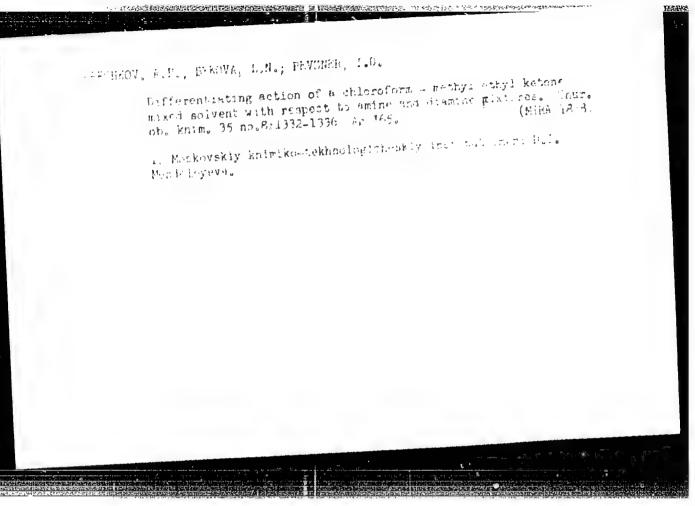




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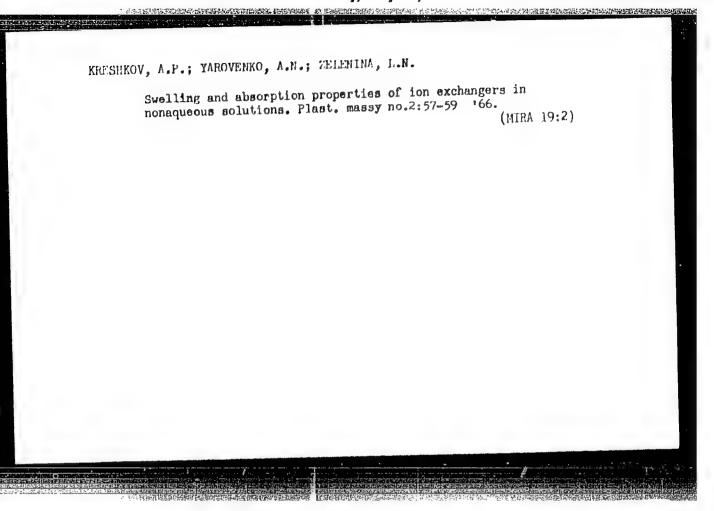




KRESHKOV, A.P.; SAYUSHKINA, Ye.N.; DROZDOV, V.A.

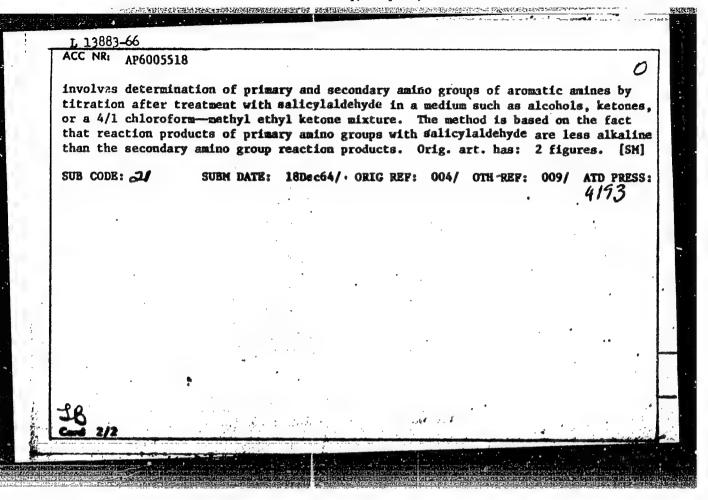
Preparation of nonaqueous solutions of hydroxides of quaternary ammonium bases by means of ion exchange. Zhur. prikl. khim. 38 no.11:2398-2401 N '65.

1. Moskovskiy khimiko-tekhnologiche:kiy Institut imeni D.I. Mendeleyeva. Submitted December 10, 1963.



CIA-RDP86-00513R000826410

WH/DJ/RH Ave 13883-06 BIT()/ENP(1)/T SOURCE CODE: UR/0080/66/039/001/0200/0203 ACC NR AP6005518 52 AUTHOR: Kreshkov, A. P.; Bykova, L. N.; Peyzner, I. D.; Skripko, L. A. ORG: Moscow Chemical Technology Institute im. D. I. Mendeleyev (Moskovskiy khimiko-tekhnologicheskiy institut). Galacticia tekhnologicheskiy institut); Scientific Research Institute of Chemicals for Polymeric Materials (Nauchno-issledovatel skiy institut khimikatov dlya polimernykh materialov) TITLE: Synthesis and analysis of secondary aromatic diamines used as stabilizers polymeric materials SOURCE: 2hurnal prikladney khimii, v. 39, no.1, 1966, 200-203 TOPIC TAGS: stabilizer additive, fuel additive, lubricant additive, quantitative analysis ABSTRACT: A preparative method has been developed for synthesizing p-phenylenediamine derivatives from N-phenyl-p-phenylenediamine. It is noted that such derivatives are suitable as stabilizers for polymeric materials, motor fuels and lubicating oils. N-heptyl-, N-octyl-, and N-nonyl-N-phenyl-p-phenylenediamine were prepared by alkylation of N-phenyl-p-phenylenediamine with the appropriate alcohol in the presence of Raney nickel catalyst at 130-156C in 95.8-97.8% yields based on the amine). Melting points after recrystallization were 49-50, 52-53, and 54-55C, respectively. A method of analysis was also developed for intermediate products containing mixtures of N-phenyl-p-phenylenediamine and N-alkyl-N'-phenyl-p-phenylenediamines. The method 547.553.1/.2

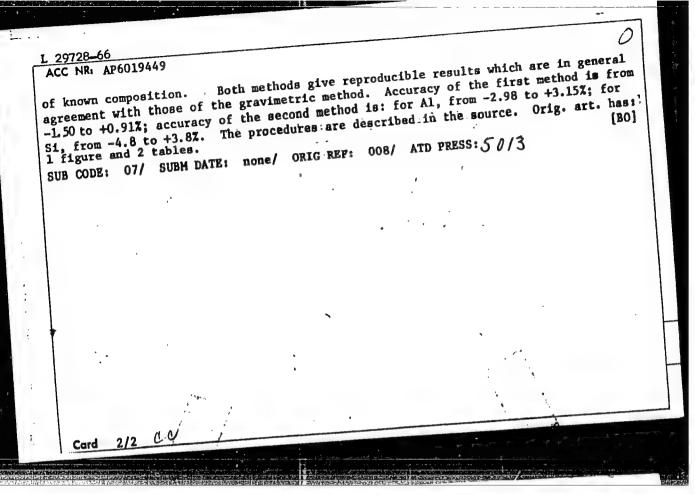


CIA-RDP86-00513R000826410

EWT (m) DS/RM L 34613-66 ACC NR: AP6026579 SOURCE CODE: UR/0191/66/000/002/0057/0059 AUTHOR: Kreshkov, A. P.; Yarovenko, A. N.; Zelenina, L. N. ORG: none TITIE: Swelling and absorption capacity of ion-exchange resins in nonaqueous media SOURCE: Plasticheskiye massy, no. 2, 1966, 57-59 TOPIC TAGS: nonaqueous solution, ion exchange resin, methanol, acetone, temperature dependence, cation, anion exchange resin, titrimetry ABSTRACT: The swelling and exchange capacity of ion-exchange resins (the strongly acidic cation-exchange resin SDV-3 in the H-form and the strongly: basic anion-exchange resin AV-17 in the C1-form) were studied in nonaqueous solvents at various temperatures. The temperature dependence of the swelling of the ion-exchange resins in methanol modium was characterized by a convex curve with a maximum corresponding to 16°C; it depended on many factors, including the individual properties of the resin and solvent. The process of swelling was accompanied by diffusion and adsorption of the solvent. which are influenced oppositely by temperature. The swelling behavior was also studied in acctone. The absorption capacity of the ion-exchange resins was determined under dynamic conditions, retaining a constant rate of flow in the column, uniformly filled with the ion-exchange rosin. The temperature dependence of the absorption capacities of the cation and anion-exchange resins Card 1/2 UDC: 661:183.123

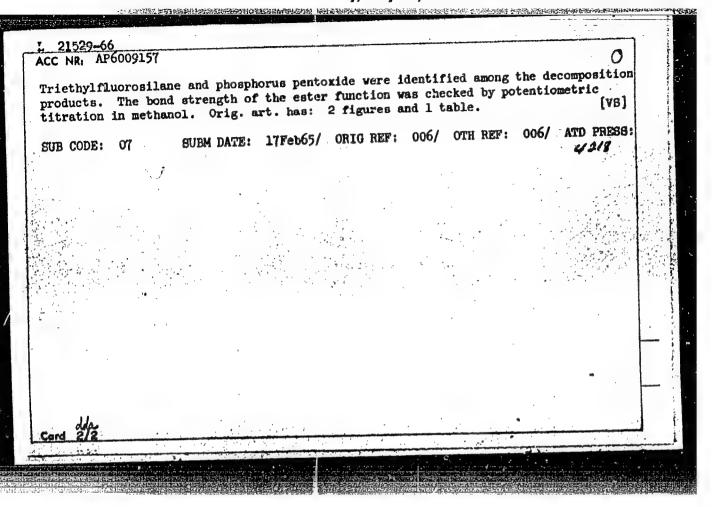
ACC NR: AP6026579 Was found to differ; there was also a difference in the dependence of their capacities on the swelling. It was hypothesized that in the case of cation exchange the absorbed solvent in the pores of the swellen ion-exchange resin interferes with the penetration of cations to the active groups, the dynamic exchange capacity therefore increasing with increasing temperature and the exchange capacity therefore increasing with increasing temperature and the swelling decreasing. In the case of anion exchange the molecules of adsorbed solvent promote an increase in the rate of exchange. The exchange capacity of the anion-exchange resin and its swelling reach a maximum at 20°C. The the anion-exchange resin and its swelling reach a maximum at 20°C. The behavior of the cation-exchange resin in nonaqueous media was also studied by potentiometric titration, in which the cation-exchange resin was found to behave as a strong acid, with an exchange capacity of three milligram equivalents per gram. Orig. art. has: 5 figures and 1 table. [JPRS: 36,459] SUB CODE: 07 / SUBM DATE: none / ORIG REF: 006 / OTH REF: 006	
Cari; 2/2-0	

4	
ACC NR: AP6019449 SOURCE CODE: UR/0303/66/000/003/0060/0062	
AUTHOR: Kreshkov, A. P.; Shatunova, T. G.; Myshlyayeva, L. V.; Kuchkarev, Ye. A. B	
ORG: none TITLE: Accelerated methods for determining aluminum and silicon in organic compounds	
containing aluminum and silicon SOURCE: Lakokrasochnyye materialy i ikh primeneniye, no. 3, 1966, 60-62	
Juntame determined themical DETECTIONS	
ABSTRACT: Current methods for determining organic compounds (ASOC) require complete mineralization of such compounds and are organic compounds (ASOC) require complete mineralization of such compounds and are time-consuming. The authors have developed two accelerated methods for determining time-consuming. The authors have developed two accelerated methods for determining time-consuming. The authors method is the determination of aluminum by titrathese elements in ASOC. The first method is the determination of suminum The Si-C bond is not affected to involving complex ion formation. The Si-O Al bond is hydrolyzed with a tion involving solution is conducted to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The fast hydrolysis products. Titration is conducted readily dissolving and stabilizing the hydrolysis products. Titration is conducted readily dissolving and stabilizing the hydrolysis products. Titration is conducted to the fast hydrolysis by under these conditions of blue and the fast hydrolysis and stabilized to the fast hydrolysis by under these conditions. The fast hydrolysis hydrolysis by under these conditions and all fast hydrolysis	
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UR/0079/66/036/002/0307/0310 EWT(1)/EWT(m)/EWP(1) SOURCE CODE: L 31271-66 AP6022801 ACC NRI AUTHOR: Kreshkov, A. P.; Drozdov, V. A.; Orlova, I. Yu. TITLE: Synthesis and investigation of certain properties of Bis[trialkyl(aryl) silyl]monofluorophosphates (SOURCE: Zhurnal obshchey khimii, v. 36, no. 2, 1966, 307-310 TOPIC TAGS: chemical synthesis, organic phosphorus compound, organosilicon compound, hydrolysis, reaction mechanism, condensation reaction, toxicity, cholinesterase, fluorinated organic compound ABSTRACT: Bis[trialkyl(aryl)silyl]monofluorophosphates with the general formula (R3SiO)2POF were synthesized by reaction of trialkyl(aryl)chlorosilanes with the silver salt of monofluorophosphoric acid. Six new organosilicon monofluorophosphates were produced by the reaction of trimethyl-, triethyl-, dimethylethyl-, dimethylphenyl-, diphenylmethyl-, and dimethyl-pfluorophenylfluorosilanes. Physical and chemical properties of the products were studied; the fluorophosphates obtained undergo hydrolysis, react with a methanol solution of an alkali metal methoxide at the Si-O bond, and undergo condensation at the Si_0_P and P_F bonds when heated above 200_2500 at atmospheric pressure. The toxicity of bis[trialkyl(aryl)silyl]aonofluoro_ phosphates was found to be far lower than the toxicity of their organic analogs; the compounds exhibit practically no anticholinesterase activity. Orig. art. has: 2 figures and 1 table. [JPRS] SUBM DATE: 020ct64 / SUB CODE: 07, 06 /

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7 23520-66 EWT(m)/EWP(1)/T WW/RM	
L 21529-66 EWT(m)/EWP(1)/T WW/RM ACC NR: AP6009157 SOURCE CODE: UR/0079/66/036/003/0525/0528	
AUTHOR: Kreshkov, A. P.; Drozdov, V. A.; Orlova, I. Yu.	. :
ORG: none	
TITLE: Synthesis and investigation of some properties of trialkyl- and triarylsilyl difluorophosphates	
SOURCE: Zhurnal obshchey khimii, v. 36, no. 3, 1966, 525-528	Table 1
TOPIC TAGS: silane, organophosphorus compound, fluorophosphate ester, silyl ester	
ABSTRACT: Ammonium difluorophosphate reacts with trialkyl- or triarylsilyl chlorides in absolute ether to form trialkyl- or triarylsilyl difluorophosphates:	The second of the
$R_*R'SICI + NH_*OPOF_* \rightarrow H_*R'SIOP(F_*)O + NH_*CI$	and the state of
(I) $R = R' = CH_{i}$; (II) $R = R' = C_{i}H_{i}$; (IVI) $R = CH_{i}$; (VI) $R = CH_{i}$; (VI) $R = CH_{i}$; (VII) $R = CH_{i}$; (VIII) $R = C$	
The products are colorless, transparent liquids with a sharp odor, which tend to fume in air. They are easily soluble in polar and nonpolar solvents. It was shown that the products decompose partially on heating, probably in the following	And the second second
manner: $3(C_3H_3)_3SiOPOF_3 \rightarrow 3(C_3H_3)_3SiF + POF_3 + P_3O_5$	2
Cord 1/2 UDC: 547.558	T.
	3 1



L 3975h 66 ENT(m)/ENP(1) RM/LW/GD-2 SOURCE CODE: UR/0286/65/000/015/0031/0031	
TYNTOR: Kreshkov, A. P.; Drozdov, V. A.; Orlova, I. Yu.	
TITLE: Method for obtaining trialkyldifluorophosphatesilanes—Certificate No. 173228,	
Class C 07f	
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 31	
TOPIC TAGS: silane, organic phosphorus compound, phosphate, halogonated organic compound	
ABSTRACT: The method for obtaining trialkyldifluoro phosphatesilanes, for example trimethyl-, triethyl-, dimethylethyl-, diethylpropyldifluoro- phosphatesilanes, distinguished by the fact that trialkylchlorosilanes are subjected to reaction with ammonium difluorophosphate in an organic solvent with heating. The method according to paragraph 1, distinguished by the fact that the reaction mixture i heated to boiling. [JPRS]	
SUB CODE: 06 / SUBM DATE: 13Apr63	
	7
Card 1/1 5 UDC: 661.718.115.547.412.2612411245	

ACC NR. AP6021968	SOURCE CODE: UR/0153/66/	009/002/0200/0204
AUTHOR: Kreshkov, A. P.; Dr	ozdov, V. A.; Kolchina, N. A.	3 G
ORG: Moscow Chemical Technotekhnologicheskiy institut)	ology Institute im. D. I. Mendeleyev (
TITIE: Determination of all phosphinic and phosphinothic	cyl phosphonic and phosphonothioic dic	chlorides, dialkyl-
SOURCE: IVUZ. Khimiya i kl	nimicheskaya tekhnologiya, v. 9, no. 2	2, 1966, 200-204
TOPIC TAGS: analytic cheorganic phosphorus compound	mistry, volumetric analysis, potention, organic sulfur compound, organophos	netric titration, phorus compound
of alkyl-phosphonic and pho thioic chlorides, of methyl listed chlorides. The meth methylphosphonic acid with gmine) in an organic solven amine with 0.1 N HCl determ	thod has been developed for quantitates sphonothicic dichlorides, dialkyl-phosphonic acid and free hydrochloric od was based on the reactions of thes a measured excess of an amine (piperit. Back-titration, potentiometric or ined the quantity of all the organoph lorides studied and of methylphosphon with piperidine did not exceed -2.4%	acid in the above- e chlorides or dine or cyclohexyl- visual, of the excess osphorus or S-con- ic acid. The relative
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	NR: AP602							
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L 38118-66 EWT(m)/EWP(j)/EWP(t)/ETI IJP(c) JD/RM	4255
L 38118-66 EWT(m)/EWP(j)/EWP(t)/ETT 13P(t) 05/M1 ACC NR: AP6014141 (A) SOURCE CODE: UR/0075/65/020/012/1325/1329	
AUTHOR: Kreshkov, A. P.; Myshlyayeva, L. V.; Kuchkarev, Ye. A.;	Ŀ
Shatunova. T. U.	
ORG: Moscow Chemico-technological Institute im. D. I. Mendeleyev	
TITLE: Quantitative determination of titanium in titanium-organic and	
TEST AND THE DESCRIPTION OF THE PROPERTY OF TH	
COURCE. Thumpal analiticheskoy khimii, v. 20, no. 12, 1965, 1325-1329	
TOPIC TAGS: quantitative analysis, titanium, titanium compound, silicon	
compound	
ABSTRACT: The article describes two methods for the determination of titanium, a titration (complexometric) and a spectroscopic method. In titanium, a titration (complexometric) of the compound to be analyzed,	
Laboration methods a work of the same for my of	
containing local magnetic scid. The mixture is heated for local minutes of concentrated sulfuric scid. The mixture is heated for local minutes of the concentrated sulfuric scid. The solution is cooled to 90-100° and to the evolution of H2SO, vapors. The solution is carried out with complete mineralization of the weighed portion is carried out with emmonium persulfate. The solution is cooled and 30 ml of water are ammonium persulfate.	,
UDG: 543.70:543.80	
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	73.5

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ACC NR: AP6011111

carefully added and the solution is boiled for 5-10 min to decompose the smmonium persulfate. The silicic acid is filtered off and the silicon is determined by weighing in the form of SiO2. Final titration of the titanium in the filtrate is done with a 0.05 M solution of ZnSO1. The relative error of the method does not exceed 2.5%. In the spectroscopic method, the titanium is determined in the form of tetrabutoxytitanium and silicon in the form of tetraoxysilane. In this method, the standard relative error in the determination is 2.2% for titanium and 1% for silicon. Comparative results by the two methods are shown in tabular form. According to the article, the spectroscopic method is to be preferred in practice, since no preliminary mineralization is required. Orig. art. has: 2 figures and 2 tables.

SUB CODE: 07/ SUBM DATE: 28Nov64/ ORIG REF: 010/ OTH REF: 002

Card 2/2 1/2-

L 36079-66 EVT(m)/EVP(t)/ETI LJP(c) JD/JG ACC NR: AP6016298 (A) SOURCE CODE: UR/0075/66/021/001/0034/0039
ACC NR: AP6016298 (A) SOURCE CODE: UN COTO COTO
AUTHOR: Kreshkov, A. P.; Yarovenko, A. N.; Milayev, S. M.; Aldarova,
N. Sh.
ORG: Moscow Chemico-technological Institute im. D. I. Mendeleyev (Moscovskiy khimiko-tekhnologicheskiy institut); Eastern Siberian (Moscovskiy khimiko-tekhnologicheskiy institut); Technological Institute, Ulan-Ude (Vostochno-Sibirskiy tekhnologicheskiy institut)
Instituto,
TITLE: Analysis for salts of rare earth elements in nonaqueous solutions
SOURCE: Zhurnal analiticheskoy khimii, v. 21, no. 1, 1966, 34-39
TOPIC TAGS: quantitative analysis, rare earth element, nonaqueous
ABSTRACT: The article describes the results of a study of the behavior of the rare earth elements in sloohols, ketones, and in a mixture of the rare earth elements in a methanol and acetone. Nitrates of the rare earth elements in a methanol-acetone medium (1:4) act as acids and can therefore be methanol-acetone medium (1:4) act as acids and can therefore be determined by direct potentiometric titration with a standard benzene-determined by direct potentiometric titration with a methanol methanol solution of tetraethylammonium hydroxide or with a methanol solution of tetraethylammonium hydroxide. The following rare earths solution of tetramethylammonium hydroxide.
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ACC NR: AP6016298

were determined: Y, La, Ce(III), Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Yb, Lu, and Th. A figure gives the titration curves for individual rare earth nitrates, and a second figure gives the titration curves for mixtures of rare earth nitrates and for mixtures of nitrates with nitric seid. Further figures give enalogous curves for the the nitrates of various elements and for mixtures of rare earth nitrates with the nitrates of other elements. The actual snalytical results of the determinations are shown in tabular form. Orig. art. has: 4 figures and 3 tables.

SUB CODE: 07/ SUBM DATE: 06May65/ ORIG REF: 004/ OTH REF: 013

CIA-RDP86-00513R000826410

Problem 11 1(n)/ SOURCE CODE: UP/0075/66/021/007/0813/0816 ACC NR. AP6024289 32 13 AUTHOR: Kreshkov, A. P.; Yarovenko, A. N.: Milayev, S. M. ORG: Moscow Chemical Engineering Institute im, D. I. Mendeleyev (Moskovskiy khimikotekhnologicheskiy institut) TITLE: Analysis of magnesium-rare earth element alloys in nonaqueous solutions SOURCE: Zhurnal analiticheskoy khimii, v. 21, no. 7, 1966, 813-816 magnesium alloy, rare earth extraevr, nonaqueous solution, titrimetry, TOPIC TAGS: BROMIDE ABSTRACT: The behavior of chlorides, bromides, and nitrates of Sc, Y, La, Ce, Pr, Nd, Sm, Eu. Gd, Yb, Dy, Ho, Er, Tm, and Lu in nonaqueous solvents was studied, and it was found that bromides in mixed methanol-acetone solvent can be determined separately by direct potentiometric titration with a standard benzene-methanol solution of tetraethylammonium hydroxide. On the basis of earlier determined properties of mineral acids and their salts in nonaqueous solutions, new and rapid methods have been developed for analyzing binary and ternary Mg, Mn, Cd, Co, Ni, Zn, Al, Pb, and other metal base alloys with rare earths. A procedure for analyzing magnesium alloys with the rare earths enumerated above is described. It consists of a consecutive potention metric titration of rare earth and magnesium bromides in a 1:4 methanol-acetone solvent. It is rapid and reasonably accurate and can be applied to the analysis of certain ternary magnesium alloys. Orig. art. has: 2 figures and 2 tables. [27] SUB CODE: 07/ SUBM DATE: 23Ju165/ ORIG REF: 007/ OTH REF: 001/ ATD PRESS: 505 Card 1/1/11/6 543.70 UDC:

CIA-RDP86-00513R000826410

I. 36925-56 EWT(m)/EWP(t)/ETI IJP(c) JD/JG ACC NRI AP6012212 SOURCE CODE: UR/0032/66/032/004/0396/0397 AUTHOR: Kreshkov, A. P.; Yarovenko, A. N.; Milayev, S. M. 13 ORG: Moscow Chemico-technological Institute im. D. I. Mendeleyev (Moskovskiy khimiko-tekhnologicheskiy institut) TITLE: Analysis of alloys of the rare earth elements in nonaqueous solutions SOURCE: Zavodskaya laboratoriya, v. 32, no. 4, 1966, 396-397 TOPIC TAGS: quantitative analysis, rare earth element, nonequeous solution ABSTRACT: The article reports a fast approximate method of analysis of alloys of the rare earth elements, based on dissolving them in hydrobromic scid and subsequent titration of the compounds obtained in a methanol-acetone medium, with a standard benzene-methanol solution of tetraethylammonium hydroxide. The method has been applied to the analysis of binary and ternary alloys of the rare earth metals based on magnesium, menganese, cadmium, cobalt, nickel, zinc, aluminum, lead, and other metals. The titration was carried out by the potentiometric method. Measurement of the potentials was done with a type LP-58 Card 1/2 UDC: 5L3.7

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otentionmet rt. has: 2	er. Experiment figures and	ntal results are 2 tables.	given in two t	ables. Ori	· g •
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CIA-RDP86-00513R000826410

36791~66 EVP())/EVT(m)/EMP(2)/ETI LIP(ACC NR: AP6015726 (A) SOURCE (code: ur/0032/66/032/005/0558/0559
UTHOR: Kreshkov, A. P.; Kucherev, 1	(e. A.
RG: <u>Koscow Chemico-technological In</u> Moskovskiy khimiko-tekhnologicheski	nstitute im. D. I. Mendeleyev E
ITLE: Spectroscopic method of deter rganometallic compounds	rmining germanium, tin, and lead in
OURCE: Zavodskaya laboratoriya, v.	32, no. 5, 1966, 558-559
OPIC TAGS: spectrographic analysis rganometallic compound	, germanium, tin, lead,
BSTRACT: The article proposes a nereliminary mineralization of the substance of the substance being analyzed is table shows the results of spectro.	bstance to be analyzed. The method analysis of solutions of the benzene which are introduced into d'fulgurator cooled with a frozen (1:1). The content of the element found from curves, and its content hen calculated by standard methods.
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36791-66 ACC NR: AP6015726	3
rganic compounds of germanium, tin, and lead. The mean square en he spectroscopic determination of germanium is 2.8%, of tin 2.7%, f lead 3.3%. Orig. art. has: 2 figures and 1 tables.	ror in and
UB CODE: 07, 20/ SUBM DATE: none/ ORIG REF: 003/ OTH REF:	001
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DOIN TO THE PROPERTY OF THE PR	

KRESSIKOV, I. P.

Diasertation: "Theory of Motion of the fifth Jupiter's Satellite."

16/6/49

Moscow State U. imeni

M. V. Lomondsov.

SO Vecheryaya Moskva

Sum 71

KRESHKOV, A.P., prof.; KRESHKOVA, Ye.K., assistent

Anhydrous solutions. Khim. v shkole 17 no.3:3-10 My-Je '62.

(Solution (Chemistry))

PLATONOV, V.M.; KRESHTAKOVA, G.P.

Calorizing automobile engine valves. Metalloved. i term. obr. met. no.5:61-63 My '63. (MIRA 16:5)

1. Nauchno-issledovatel'skiy institut tekhnologii mashinostroyeniya Chelyabinskogo soveta narodnogo khozyaystva. (Automobiles—Engines—Valves) (Aluminum coating)

CIA-RDP86-00513R000826410

ACC NR: AP7000317

SOURCE CODE: UR/0413/66/000/022/0052/0052

AUTHOR: Kareyev, M. F.; Plakhov, A. N.; Zheglov, V. A.; Kreshtapov, Ye. Ya.

ORG: None

TITLE: A device for automatically controlling the rate of motion of the plunger on a horizontal hydraulic press. Class 21, No. 188543 [announced by the All-Union Scientific Research and Design and Planning Institute of Metallurgical Machine Building (Vsesoyuznyy nauchno-issledovatel skiy i proyektno-konstruktorskiy institut metallurgicheskogo mashinostroyeniya)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 22, 1966, 52

TOPIC TAGS: metal press, automatic control equipment, electronic equipment

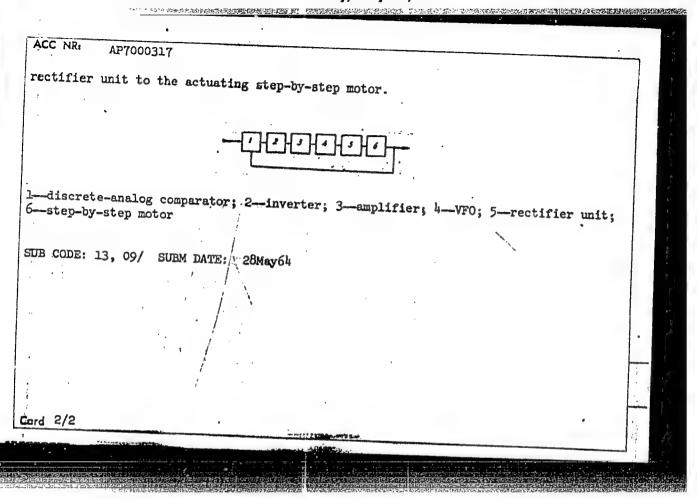
ABSTRACT: This Author's Certificate introduces a device for automatically controlling the rate of motion of the rlunger on a horizontal press. The unit contains an amplifier and a DC-AC inverter. The installation is designed to handle a wide range of velocities, to improve efficiency at low velocity and to eliminate the zone of insensitivity and slow response. A master signal and a feedback signal are sent to the inputs of a discrete-analog comparator in the regulator, while the output of this comparator is connected through the inverter to a VFO which is connected through a

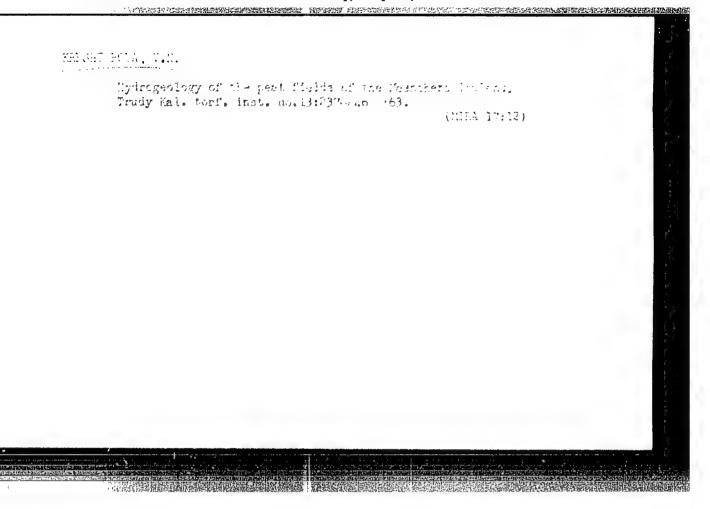
Card 1/2

UDC: 621.3.078.4-531.6:621.979-82

APPROVED FOR RELEASE: Monday, July 31, 2000

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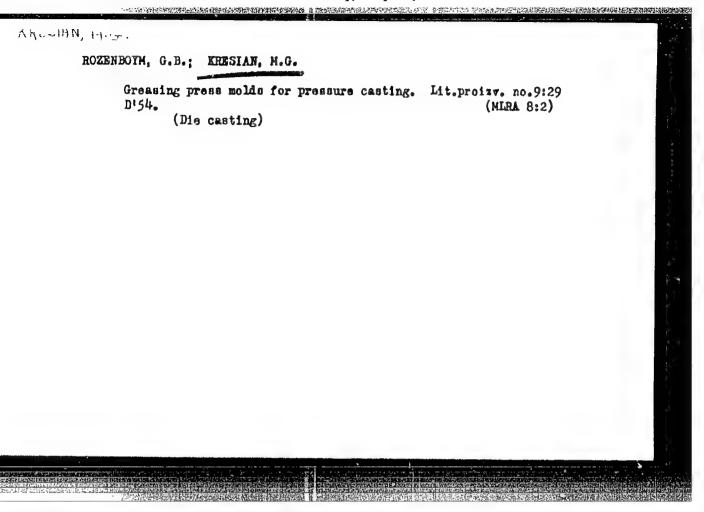


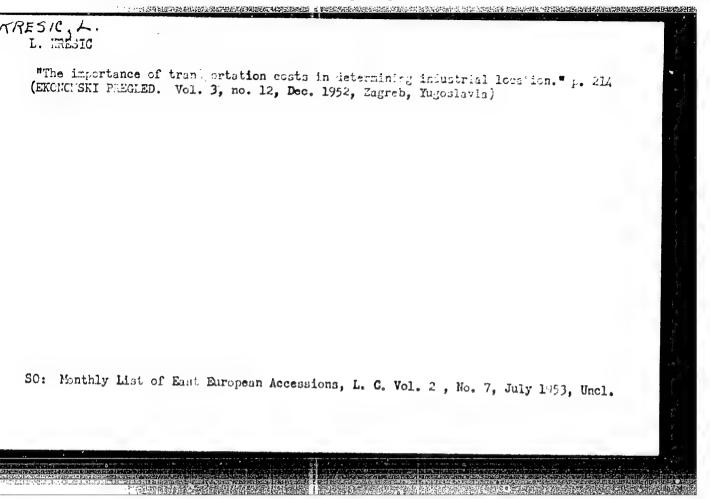


SOKOLOVA, S.M.; STAROSTIN, B.A.; SHATALINA, M.S.; KRESHTAPOVA, V.N.;
SKVORTSOV, A.K.; GOLYSHEVA, M.D.; DUNDIN, Yu.K.; PODLECKLY, G.I.;
SHKODA, A.M.; DONSKAYA, T.N.; MURTAZANOVA, E.Sh.; LOBACHEV, V.S.;
VORNOV, A.G.; SKOKOVA, N.N.

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(MIRA 18:12)





"Some problems in connection with increasing investments." p. 71. (Gradevinar. Vol. 5, no. 2, May 1953. Zagreb.)

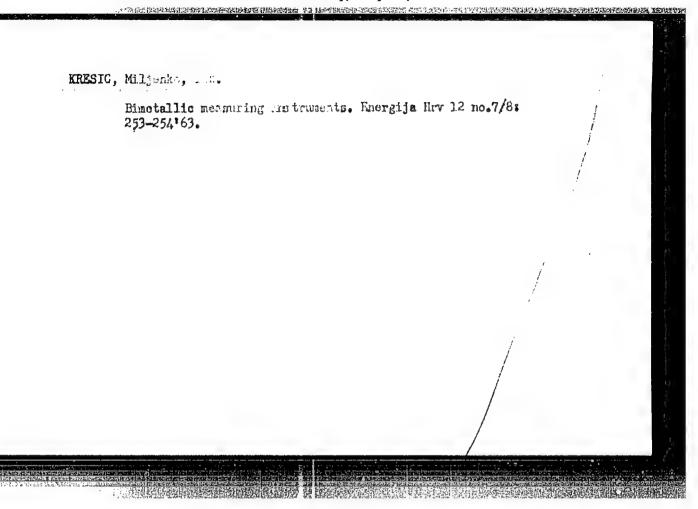
SO: Monthly List of East European Accessions. Vol. 3, no. 3. Library of Congress. March 1954. Uncl.

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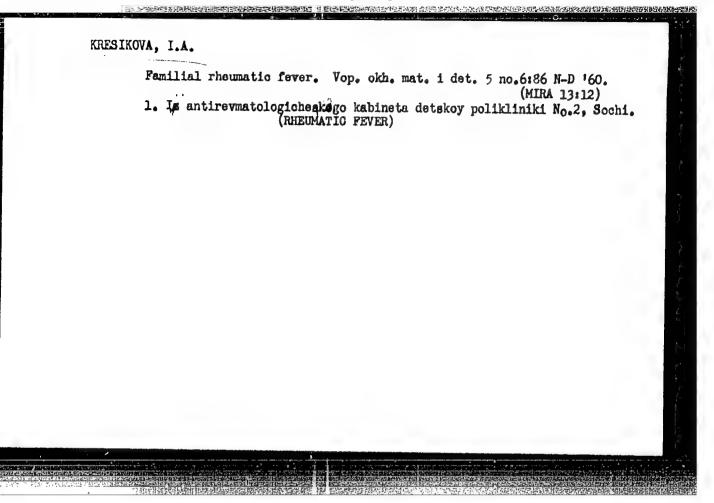
ERESIC, Miljenko, inz. (Zagreb)

Effect of high-voltage electric wires and atmospheric discharges on the telecommunication cables. Energija Hrv 12 no. 9/10:283-285 163.

 Zajednica elektroprivrednikh poduzeca Hrvatske, Zagreb, Proleterskih brigada 37.



Interrelations of rheuratic fever and tuberculosis. Pediatrita 37 no.4:49-52 Ap '59. (MIRA 12:6) 1. Iz reventologicheskogo kabineta detskoy polikliniki No.2 Sochi (glavnyy vrech M.I.Akmayeva). (RHEUMATIC FEVER, in inf. & child relation to tuberc. infect. (Rus)) (TUBERCULOSIS, in inf. & child relation to rheur. fever infect. (Rus))



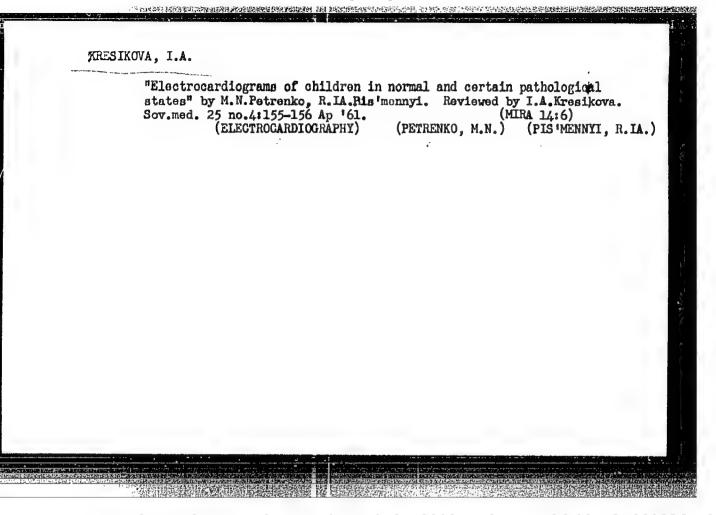
CRIGOR'YEV, I.I.; SHIKHOVA, N.M.; VIADIMIROVA, Z.Ya.; KRESIKOVA, I.A.;

Prevention of rheumatic fever under operating conditions of rhoumatological clinics. Vrach. delo no.9:31-33 S '60.

(MIRA 13:9)

1. Sochinskiy nauchno-issledovatel'skiy institut kurortologii.

(RHEUMATIC FEVER)



KRESHKOV, Anatoliy For novich, Ictoromic pehast, yet YAROVENEO, A.N., dots.; KBESHKOVA, Ye.K.; sto project, VILTBORG, D.S., kand. khim. nauk, dots.; KIKHACIYEKO, Forfa.; STORIKOVA, N.I., red.; ODERBERG, L.R.; red.

[Principles of analytical obscistry, qualitative and quantitative analysis on two bound) Comovy analyticheskoi khimi; kachestvennyi i korobestvennyi analiz [v dvukh knigakh], Izd.2., perer. Medica Khimia, 2 vol. (MIRA 18:12)

PAVLENKO, Yevpeniy Yakovlevich; KRESIN, M.L., red.; PODANGVA, A.P., tekhn. red.

(Automotive transportation; problems and exercises]Avtomohilinge provozaki, abornik zadach i uprazhnenii. Moskva, Avtotransiziet, 1962. 184 p. (MRRA 16:2)

(Transportation, Automotive-Study and teaching)

YERETSKIY, Mark Isaakovich; KRESIN, Mark Leont'yovich; MATVEYEV, M.I., retsenzent; AFAMAS'YEV, L.L., kand. tekhn. nauk, red.; GALAKTIO-NOVA, Ye.N., tekhn. red.

[Methodology of degree projects]Metodika diplomnogo proektirovanila.

Moskva, Nauchno-tekhn. izd-vo M-va avtomobil'nogo transp. i shosneinykh dorog RSFSR, 1961. 206 p.

(Project method in teaching) (Tochnical education)

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s/056/60/039/004/002/048 E019/E070

24.6720 AUTHORS:

Iodko, M. G., Tuchkevich, V. V., Romanov, V. A., Kresin, O.M.

TITLE:

An Investigation of the Relative Intensities of Some Conversion Lines in the Spectrum of Neutron-deficient

Lu-Isotopes M

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1960,

Vol. 38, No. 4, pp. 1027-1030

TEXT: The authors have investigated the strong lines of the conversion spectrum of the neutron deficient Lu-isotopes by means of a prism spectrometer. The two sources used here were obtained by separating the Lu-isotope fraction from a Ta-target which had been irradiated by 660-Mev protons. With the first source, the energies and the intensities of the conversion lines 66.70 and 75.85 kev in the Lu¹⁷¹ spectrum were measured. and 78.70 and 90.55 kev lines in the spectrum of Lu^{172} . The relative

intensities of the 84.19-kev L-lines in the Lu 170-spectrum, the 87:20-kev L-lines in the Lu 169-spectrum, and the 181.4 kev L-lines in the Lu 172-

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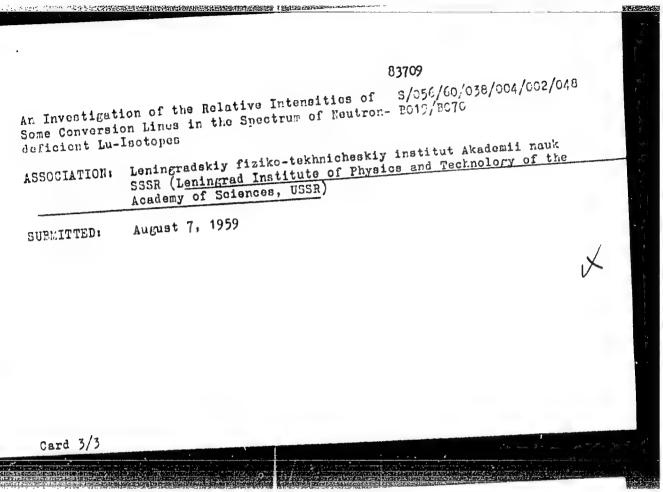
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An Investigation of the Relative Intensities of S/056/60/038/004/002/048 Some Conversion Lines in the Spectrum of Neutron-B019/B070 deficient Lu-Isotopes

spectrum were measured with the second source. As the second source was very thick, the data obtained with it are to be considered only as rough values. The energies of the lines were measured by a method developed earlier by Romanov (Ref. 4). The energies of the conversion lines, and the calculated values of the transition energies are given in Table 1. The conversion lines are represented graphically in Fig. 1. The ratios of the L-conversion lines of the transitions with 66.74 and 75.89 kev in the Lu¹⁷¹-spectrum are given in Table 2. The analogous ratios for 78.74 kev-, 90.66 kev-, and 181.4 kev in the Lu¹⁷²-spectrum are given in Table 5. The theoretical and the experimental values are compared in the tables 2 and 3, and the multiplicities of 4-transitions are derived from the corresponding L-sub-shell intensities. L. A. Sliv and I. W. Band (Ref. 10) are mentioned. There are 1 figure, 3 tables, and 16 references: 6 Soviet, 8 US, and 2 Dutch.

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31943 8/057/62/032/001/003/018 B104/B138

24.2500

Ankudinov, V. A., Kel'man, V. M., Kresin, O. M., and

Sysoyeva, L. N.

TITLE:

AUTHORS:

Motion of charged particles in a uniform magnetic field the

strength of which is linearly dependent on time

Zhurnal tekhnicheskoy fiziki, v. 32, no. 1, 1962, 22-29 PERIODICAL:

TEXT: The motion of charged particles of mass m and charge e was studied in a uniform magnetic field $H_z = H_0 t + H_1$. H_0 and H_1 are constant. The electric field created by the variation in magnetic field strength is shown as E $\varphi = -H_0 r/2c$. The equations of motion for a charged particle in nonrelativistic approximation read:

 $m(\ddot{r}-r\dot{\dot{y}}^2) = \frac{e}{a}r\dot{\dot{y}}(H_0t + H_1), \frac{m}{r}\frac{d}{dt}(r^2\dot{\dot{y}}) = -\frac{eH_0r}{2o} - \frac{e}{a}\dot{r}(H_0t + H_1), m\dot{z} = 0.$ From the latter equation it follows that $z = \dot{z}_0 t + z_0$ (3), where \dot{z}_0 and z_0 are constant. Thus, the particles travel in an r-y plane moving along the z-axis at constant velocity. By substituting Card 1/4

5/057/62/032/001/003/018 B104/B138

Motion of charged particles ...

$$w_0 = \frac{eH_0}{2mo}, w_1 = \frac{eH_1}{2mo},$$
 (A)

in the equations of motion, one obtains

$$r - r\dot{\varphi}^{2} = 2r\dot{\varphi} (\omega_{0}t + \omega_{1}), \qquad (4) - (5).$$

$$\frac{d}{dt} (r^{2}\dot{\varphi}) = -\omega_{0}r^{2} - 2rr(\omega_{0}t + \omega_{1}).$$

Using the complex function $U = \text{rexp}\left\{i(\varphi + \omega_0 t^2/2 + \omega_1 t)\right\}$, this system can be represented in the form $U + (\omega_0 t + \omega_1)^2 U = 0$ (7).

$$U = \sqrt{t + \frac{\omega_1}{\omega_0}} \left\{ C_1 J_{\gamma_i} \left[\frac{(\omega_0 t + \omega_1)^2}{2\omega_0} \right] + C_2 J_{-\gamma_i} \left[\frac{(\omega_0 t + \omega_1)^2}{2\omega_0} \right] \right\}. \tag{8}$$

is a solution of (7), J_n being the Bessel function. The constants in (8) are determined with the aid of an initial value problem, and Card 2/4

Motion of charged particles ...
$$S/057/62/032/001/003/018$$

$$U = \frac{\pi}{2} \sqrt[4]{\frac{x_0 x}{w_0^2}} (\omega_1 r_0 [J_{\eta_1}(x_0) J_{\eta_2}(x) + J_{-\eta_1}(x_0) J_{-\eta_1}(x)] + \frac{1}{4} - [r_0 + r i r_0 (\phi_0 + \omega_1)] [J_{-\eta_1}(x_0) J_{\eta_1}(x) - J_{\eta_1}(x_0) J_{-\eta_1}(x)], \qquad (13)$$

$$x = \frac{(\omega_0 t + \omega_1)^3}{2^2 \omega_0}, \quad \text{a} \quad x_0 = \frac{\omega_1^2}{2\omega_0}.$$
is obtained as solution. Since r is the amount of the complex function U , one has
$$r = \sqrt{UU^2} = \frac{\pi}{2} \int_{-\eta_2}^{4} \sqrt{\frac{x_0 x}{2}} [r_0^2 (\phi_0 + \omega_1)^3 [J_{-\eta_1}(x_0) J_{\eta_1}(x) - J_{\eta_1}(x_0) J_{-\eta_1}(x)]^3 + \frac{1}{4} - \frac{\pi}{2} [\omega_1 r_0 (J_{\eta_1}(x_0) J_{\eta_1}(x) + J_{-\eta_1}(x_0) J_{-\eta_1}(x))]^2]^{3/4}}{y_0 + y_0 + y$$

Motion of charged particles ...

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(3), (14), and (15) fully describe the motion of a charged particle in the given magnetic field. A thorough study shows that if a particle moves long enough its kinetic energy is almost linearly time-dependent. The results are applied to a number of special cases. There are 9 figures and 2 non-Soviet references. The two references to English-language publications read as follows: Gordon, Charged-Particle Orbits in Varying Magnetic Fields, J. of Appl. Phys., 31, no. 7, 1187 (1960); C. S. Gardner, Particle trajectories in homogeneous magnetic field with linear time dependence, University of California, Lawrence Radiation Laboratory, Berkeley, California, Rept. 4563 (Aug. 1955).

ASSOCIATION:

Fiziko-tekhnicheskiy institut AN SSSR im. A. F. Ioffe, g.

Leningrad (Physicotechnical Institute AS USSR imeni A. F.

Toffe, Leningrad)
March 27, 1961

SUBMITTED:

Card 4/4

2-58-5-5

Kresin, R., Dotsent of the Chair of Industrial Statistics AUTHOR:

On the Relations Between Salary Funds and Gross Production (O svyazi mezhdu fondom zarabotnov platy i valovov produk-TITLE:

tsiyey)

Vestnik Statistiki, 1958, Nr 5, pp 31 - 35 (USSR) PERIODICAL:

The author presents a new method of calculating salary funds ABSTRACT:

(proportionally to the labor input used in production) and builds up a new index to correct salary funds according to actual requirements. Theoretical calculation principles are

expounded and demonstrated by examples. There are 2 tables.

ASSOCIATION: Bukharestskiy neftyanoy institut (The Bucharest Petroleum

Institute)

Library of Congress AVAILABLE:

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sov/2-59-5-3/10

AUTHOR:

Kresin, R. (Rumania)

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TITLE:

Analysis of Labor Efficiency by Means of Indices

PERIODICAL:

Vestnik statistiki, 1959, Nr 5, pp 40-44 (USSR)

AUTHOR:

The author (from Rumania) states that statistical indices enable registering increased labor efficiency, resulting from technical improvements, higher labor qualifications and better working organization. Labor efficiency is calculated from the amount of production divided by working time and is represented

by a formula $q=\frac{Q}{T}$, where q is labor efficiency; Q is the amount of material produced and T is working time used in this production. This formula, applied in various areas, industries or factories of the same industry, will give different results, symptomatic of different factors affecting labor efficieny in small areas or industrial units. But the formula

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SOV/2-59-5-3/10

Analysis of Labor Efficiency by Means of Indices

can also be applied to larger areas and groups of industries, in which case it will indicate an average labor efficiency in a given area or group of industries. The formula itself, according to the author, can be differently represented, but it should always give similar results. There are 2 tables.

Card 2/2

24(3) AUTHORS:

Geylikman, B. T., Kresin, V. Z.

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507/20-123-2-13/50

TITLE:

On the Phononic Thermal Conductivity of Superconductors

(O fononnoy teploprovodnosti sverkhprovodnikov)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 2, pp 259-261

(USSR)

ABSTRACT:

Several mechanisms of thermal conduction are known to exist which are connected with the interaction of electrons, phonons, and the atoms of the impurity. In superconductors the thermal conduction of the lattice plays an important part. In a previous paper by B. T. Geylikman the electronic thermal conduction connected with the distance between electrons in the impurities was calculated. In the present paper the thermal conductivity due to the action of electrons on phonons is determined. There exists also a temperature range in which this mechanism is one of the most important $(T \gtrsim (0.3-0.5)T_k)$. First, the kinetic equation for the distribution functions of phonons is written down. In the Hamiltonian of electron-phonon interaction one passes over to new Fermi amplitudes by means of a transformation. Next, a formula for the collision integral is given on the basis of these new amplitudes, and also the

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On the Phononic Thermal Conductivity of Superconductors

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distribution function is written down. The calculation process is outlined. The expression obtained for the thermal heat flow of the lattice is given. The formulae found give a good description of the experimental results obtained by R. J. Sladek (Ref 5). There are 5 references, 3 of which are Soviet.

' ASSOCIATION:

Moskovskiy gosudarstvennyy pedagogicheskiy institut im. V. I. Lenina (Moscow State Pedagogical Institute imeni

V. I. Lenin)

PRESENTED:

July 12, 1958, by L. A. Artsimovich, Academician

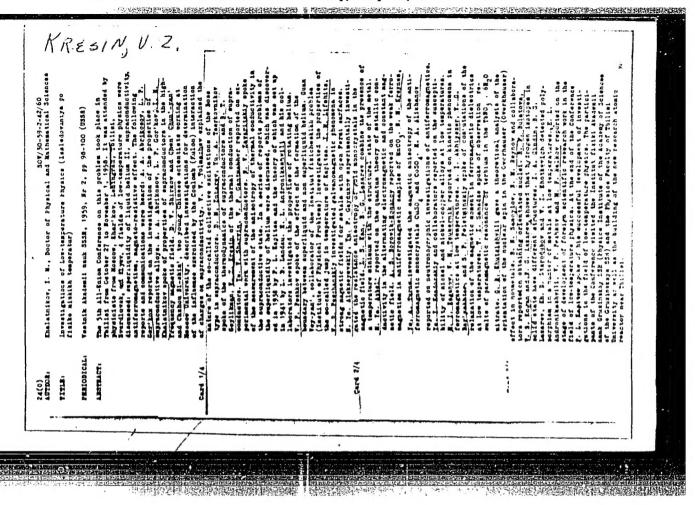
SUBMITTED:

July 10, 1958

Card 2/2

KRESIN, V.X., Cand Phys Math Sci ** (diss) "Transfer phenomenonal and paramagnetism im superconductors." Mos, 1959, 7 pp (Mos State Pedagogical Inst im V.I. Lenin) 150 copies (KL, 30-59, 111)

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24(1)

sov/56-36-3-66/71

AUTHORS:

Geylikman, B. T., Kresin, V. Z.

TITLE:

On the Thermal Conductivity and Sound Absorption in Superconductors (O teploprovodnosti i pogloshchenii zvuka v

: MARKER METALT SPEAK TO FOR

sverkhprovodnikakh)

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1959,

Vol 36, Nr 3, pp 959 - 961 (USSR)

ABSTRACT:

The present paper ("Letter to the Editor") is based upon two earlier papers (Refs 1,2) by the same authors. In the first, the electronic thermal conductivity κ_a of superconductors

was investigated, and the latter investigates the phonon thermal conductivity $\mathbf{k}_{\,\,p}^{\,}$ in dependence on phonon-electron

collisions. The present paper shows that the temperature dependence of κ_e and κ_p derive in references 1 and 2 may

serve as an explanation of ile experimental data today available on thermal conductivity. According to reference 2

it holds that

Card 1/3

 $\hat{q}_{\hat{p}}^{s} = k_{p}^{n} F(T)/F(T_{k});$ the index s denotes the superconductive -